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## SUMMARY OF EMBRYO TRANSFER ACTIVITY IN CANADA FOR 2018

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(Based on data from 65 clinics across Canada)

<b>BOVINE DATA</b>			
<i>(Based on data from 62 clinics across Canada)</i>			
<b>BOVINE: IN VIVO DATA</b>			
<b>DONORS – EMBRYOS – FROZEN - TRANSFERS</b>	<b>DAIRY</b>	<b>BEEF</b>	<b>TOTAL NUMBER</b>
▪ Number of donors using conventional semen	3,278	3,333	<b>6,611</b>
▪ Number of donors using sexed semen	2,443	66	<b>2,509</b>
<b>TOTAL NUMBER OF DONORS</b>	<b>5,721</b>	<b>3,399</b>	<b>9,120</b>
Total number of ova/embryos collected	61,918	43,866	<b>105,784</b>
▪ Number of transferable embryos collected using conventional semen	22,505	22,690	<b>45,195</b>
▪ Number of transferable embryos collected using sexed semen	14,123	387	<b>14,510</b>
<b>TOTAL NUMBER OF TRANSFERABLE EMBRYOS COLLECTED</b>	<b>36,628</b>	<b>23,077</b>	<b>59,705</b>
<b>TOTAL NUMBER OF EMBRYOS FROZEN</b>	<b>23,724</b>	<b>19,503</b>	<b>43,227</b>
<b>TOTAL NUMBER OF FRESH EMBRYOS TRANSFERRED</b>	<b>12,009</b>	<b>2,905</b>	<b>14,914</b>
▪ Number of fresh sexed embryos transferred ( <i>sexed by biopsy</i> )	123	8	131
▪ Number of fresh sexed embryos transferred ( <i>sexed using sexed semen</i> )	4,232	15	4,247
<b>TOTAL NUMBER OF FRESH SEXED EMBRYOS TRANSFERRED</b>	<b>4,355</b>	<b>23</b>	<b>4,378</b>
• Number of frozen embryos transferred by Direct Transfer	16,286	9,960	26,246
<b>TOTAL NUMBER OF FROZEN EMBRYOS TRANSFERRED</b>	<b>16,956</b>	<b>9,963</b>	<b>26,919</b>
▪ Number of frozen sexed embryos transferred ( <i>sexed by biopsy</i> )	255	25	280
▪ Number of frozen sexed embryos transferred ( <i>sexed using sexed semen</i> )	3,155	4	3,159
<b>TOTAL NUMBER OF FROZEN SEXED EMBRYOS TRANSFERRED</b>	<b>3,410</b>	<b>29</b>	<b>3,439</b>
<b>PREGNANCY RATES</b>	<b>DAIRY</b>	<b>BEEF</b>	<b>TOTAL NUMBER</b>
Fresh embryos ( <i>based on 6,213 transfers examined for pregnancy</i> )	---	---	<b>57.0%</b>
Frozen embryos ( <i>based on 9,761 transfers examined for pregnancy</i> )	---	---	<b>54.2%</b>
<b>EXPORT / IMPORT</b>	<b>DAIRY</b>	<b>BEEF</b>	<b>TOTAL NUMBER</b>
Total number of embryos exported	4,524	4,076	<b>8,600</b>
Total number of embryos imported	61	208	<b>269</b>
<b>BOVINE – OTHER TECHNOLOGIES (IN-VIVO):</b>			<b>TOTAL NUMBER</b>
Total number of split embryos transferred			<b>407</b>
Total number of embryos biopsied for sexing			<b>420</b>



<b>BOVINE: IN VITRO (IVF) DATA</b>				
<b>OPU/IVF SESSIONS – OOCYTES - EMBRYOS PRODUCED</b>	<b>Produced by OPU Super-Stimulated</b>		<b>Produced from ABATTOIR OVARIES</b>	<b>TOTAL NUMBER</b>
	<b>DAIRY</b>	<b>BEEF</b>		
▪ Number of sessions using conventional semen	3872	390	12	<b>4274</b>
▪ Number of sessions using sexed semen	594	74	0	<b>668</b>
<b>TOTAL NUMBER OF SESSIONS</b>	<b>4,466</b>	<b>464</b>	<b>12</b>	<b>4,942</b>
Total number of oocytes collected	50,435	8,368	183	<b>58,986</b>
<b>TOTAL NUMBER OF TRANSFERABLE IVP EMBRYOS PRODUCED</b>	<b>20,820</b>	<b>3,950</b>	<b>76</b>	<b>24,846</b>
<b>IVF EMBRYOS FROZEN - TRANSFERRED - EXPORTED</b>	<b>Produced by OPU</b>		<b>Produced from ABATTOIR OVARIES</b>	<b>TOTAL NUMBER</b>
	<b>DAIRY</b>	<b>BEEF</b>		
Total number of IVP embryos frozen	8,928	2,619	50	<b>11,597</b>
Total number of fresh IVP embryos transferred	4,597	116	0	<b>4,713</b>
Total number of frozen IVP embryos transferred	3,649	461	0	<b>4,110</b>
Total number of IVP embryos exported	274	0	0	<b>274</b>
<b>BOVINE – OTHER TECHNOLOGIES (IN-VITRO)</b>				<b>TOTAL NUMBER</b>
Total number of split IVP embryos transferred				<b>4</b>
Total number of IVP embryos biopsied for sexing and/or genetic testing				<b>6114 / 6110</b>

<b>ALTERNATIVE SPECIES</b>			
<i>(Based on data from 4 clinics across Canada)</i>			
<b>ALTERNATIVE SPECIES – IN VIVO</b>			
<b>DONORS - EMBRYOS – FROZEN - TRANSFERS</b>	<b>CAPRINE</b>	<b>EQUINE</b>	<b>OVINE</b>
Total number of donors	<b>18</b>	<b>37</b>	<b>17</b>
Total number of ova/embryos collected	<b>172</b>	<b>15</b>	<b>172</b>
Total number of transferable embryos collected	<b>40</b>	<b>15</b>	<b>99</b>
Total number of embryos frozen	<b>32</b>	<b>0</b>	<b>82</b>
Total number of fresh embryos transferred	<b>8</b>	<b>15</b>	<b>17</b>
Total number of frozen embryos transferred	<b>4</b>	<b>0</b>	<b>155</b>
<b>EXPORT / IMPORT</b>	<b>CAPRINE</b>	<b>EQUINE</b>	<b>OVINE</b>
Total number of embryos exported	<b>6</b>	<b>0</b>	<b>969</b>
Total number of embryos imported	<b>0</b>	<b>0</b>	<b>0</b>
<b>NO DATA REPORTED FOR CERVINE, PORCINE OR BISON SPECIES</b>			